

Date: Sat, 6 Nov 93 04:30:38 PST  
From: Ham-Homebrew Mailing List and Newsgroup <ham-homebrew@ucsd.edu>  
Errors-To: Ham-Homebrew-Errors@UCSD.Edu  
Reply-To: Ham-Homebrew@UCSD.Edu  
Precedence: Bulk  
Subject: Ham-Homebrew Digest V93 #95  
To: Ham-Homebrew

Ham-Homebrew Digest                      Sat, 6 Nov 93                      Volume 93 : Issue    95

Today's Topics:

                    Rewinding transformers

Send Replies or notes for publication to: <Ham-Homebrew@UCSD.Edu>  
Send subscription requests to: <Ham-Homebrew-REQUEST@UCSD.Edu>  
Problems you can't solve otherwise to brian@ucsd.edu.

Archives of past issues of the Ham-Homebrew Digest are available  
(by FTP only) from UCSD.Edu in directory "mailarchives/ham-homebrew".

We trust that readers are intelligent enough to realize that all text  
herein consists of personal comments and does not represent the official  
policies or positions of any party. Your mileage may vary. So there.

-----  
Date: Fri, 5 Nov 93 22:11:54 GMT  
From: news.cerf.net!pagesat!ukma!gatech!news-feed-1.peachnet.edu!emory!  
europa.eng.gtefsd.com!howland.reston.ans.net!newsserver.jvnc.net!  
a3bee2.radnet.com!cyphyn!randy@network.ucsd.edu  
Subject: Rewinding transformers  
To: ham-homebrew@ucsd.edu

I don't have the original post..so ...

I've used a hammer and a wood-block to rap the laminations ( hard) and  
so loosen them enough to get one or two out using the chisel method.  
Then, using needle nose pliers, I got the rest out.

However...BEFORE you take it apart, measure the volts and when you unwind  
the secondary (outside coil--with the low voltage), count the turns!

Now..turns/volts= TPV

New coil turns will be volts x TPV

---

Another insulation one can use is paperbag paper..the brown stuff.  
 Cut it into long enough strips, whose width is same as original coil form.  
 Make more than you figure you might need!  
 Varnish them 1st and when dry, lay one on/wrap around and tape it to hold it.  
 Use tape to anchor your 1st turn and wind nice , neat layer of wire.  
 Add more varnish as you wind new coil....one layer at a time...and  
 as you start next layer, put on another paper..as above, on the coil you just  
 did.  
 Last turn should get some form of anchoring...I used string, sece wet-varnished  
 paper won't allow tape.  
 Put one more paper on over whole mess and let dry.`  
 Assemble the lamination the same way you took em apart, examine them for  
 gouges or kinks...repair and dab on varnish to any bare metal.  
 Completed transformer should get soaked in varnish as a last step.

Test your creation like this to avoid blowing fuses:

```
o------(uu)-----o
117vac    100w          your xformer
input     bulb          primary
o-----o
```

If Xformer has a short, the bulb will light up full brite...rather than  
 blow a house fuse.

A good xformer will only cause bulb to glow dim or not at all.  
 (try a smaller bulb if no light at all)

```
--
Randy KA1UNW          If you get a shock while          "Works for me!"
                      servicing your equipment,          -Peter Keyes
randy@192.153.4.200    DON'T JUMP!
                      You might break an expensive tube!
```

```
-----
Date: 6 Nov 93 07:19:32 GMT
From: world!moroney@uunet.uu.net
To: ham-homebrew@ucsd.edu
```

References <2bb029INN93f@news.uwsuper.edu>,  
 <1993Nov5.192134.17150@jupiter.sun.csd.unb.ca>, <wa2iseCG20MG.E8I@netcom.com>  
 Subject : Re: Rewinding transformers

The Radio Amateur's Handbook (at least older versions) give tips on  
 rewinding power transformers. One thing they suggest is not unwinding  
 the primary winding when disassembling the transformer, and count the turns  
 of the secondary to know the proper turns/volt. The primary is almost

always on the inside (closest to the core).

-Mike

-----

End of Ham-Homebrew Digest V93 #95

\*\*\*\*\*

\*\*\*\*\*